

CLAIMS

1. An oscillating piston volumetric fluid meter having a cylindrical measuring chamber (30) comprising:
 - a lateral wall (2),
 - a bottom (1) and a lid (3),
 - a lower cylinder (4) and an upper cylinder (5) having the same diameter, which is less than the diameter of said chamber (30),
 - an inlet orifice (7) and an outlet orifice (8) for respectively admitting fluid to and evacuating fluid from said chamber (30),
 - a cylindrical piston (11) disposed eccentrically and guided kinematically in said chamber (30) and effecting an oscillatory movement in said chamber (30) as a result of the displacement of a volume of fluid, and
 - a fixed partition (9) between said inlet orifice (7) and said outlet orifice (8), lying radially between said lateral wall (2) and said lower and upper cylinders (4, 5), and lying axially between said bottom (1) and said lid (3),
 - said lateral wall (2) including a vertical cavity (16) in the vicinity of said fixed partition (9),
 - 25 which meter is configured such that said cavity (16) is separate from said inlet and outlet orifices and passes through said lateral wall (2) at least partly within the height of said wall.

2. A volumetric meter according to claim 1 characterized in that said cavity (16) is on the same side of said fixed partition (9) as said outlet orifice (8).
3. A volumetric meter according to claim 1 characterized in that said cavity (16) is on the same side of said fixed partition (9) as said inlet

orifice (7).

4. A volumetric meter according to the preceding
claim characterized in that said cavity (16) is a
vertical slot parallel to a vertical edge of said fixed
partition (9).

5. A volumetric meter according to the preceding
claim characterized in that said slot (16) is tangential
to said fixed partition (9).

6. A volumetric meter according to the preceding
10 claim characterized in that said slot (16) has a width
less than or equal to 3 mm.

7. A volumetric meter according to the preceding
claim characterized in that said lateral wall (2)
includes two cavities each on either side of said fixed
15 partition.

8. A volumetric meter according to the preceding
claim characterized in that it includes a vertical groove
(17) extending along said lower and upper cylinders
(4, 5), in communication with one of said inlet and
20 outlet orifices (7, 8), and in the vicinity of said fixed
partition (9).

9. A volumetric meter according to claim 8
characterized in that said vertical groove (17) is
tangential to said fixed partition (9).

25 10. A volumetric meter according to claim 8
characterized in that said vertical groove (17) has a
width less than or equal to 2 mm.